

SEQUENCE LISTING

<110> Clinton, Gail M.
Evans, Adam
Henner, William D.

<120> HER-2 BINDING ANTAGONISTS

<130> 49321-16

<140> US 09/506,079
<141> 2000-02-16

<150> US 09/234,208
<151> 1999-01-20

<160> 10

<210> 1

<211> 79

<212> PRT

<213> Homo Sapiens

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<221> Variable

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<223> Applicants herein disclose Thr and Ser sequence variants at this position

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<221> Variable

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<223> Applicants herein disclose Leu and Pro sequence variants at this position

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<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<223> Applicants herein disclose Leu and Gln sequence variants at this position

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<223> Applicants herein disclose Met and Leu sequence variants at this position

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<221> Variable

<222> 21

<223> Applicants herein disclose Gly, Asp, Ala and Val sequence variants at this position

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<221> Variable

<222> 36

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<223> Applicants herein disclose Leu and Ile sequence variants at this position

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<221> Variable

<222> 54

<223> Applicants herein disclose Pro and Arg sequence variants at this position

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<221> Variable

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<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<222> 73

<223> Applicants herein disclose Asp and Asn sequence variants at this position

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Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val Pro Val Pro Xaa
5 10 15

Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser Phe Leu Arg Pro
20 25 30

Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro Leu Ala Pro Leu
35 40 45

Ser Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val Gly Arg Gly Xaa
50 55 60

Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser Arg Tyr Glu Gly
65 70 75

<210> 2

<211> 419

<212> PRT

<213> Homo Sapiens

<220>

<221> Variable

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<223> Applicants herein disclose Thr and Ser sequence variants at this position

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<223> Applicants herein disclose Leu and Pro sequence variants at this position

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<221> Variable

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<223> Applicants herein disclose Pro and Leu sequence variants at this position

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<221> Variable

<222> 356

<223> Applicants herein disclose Leu and Gln sequence variants at

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<223> Applicants herein disclose Met and Leu sequence variants at this position
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<222> 361
<223> Applicants herein disclose Gly, Asp, Ala and Val sequence variants at this position
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<221> Variable
<222> 376
<223> Applicants herein disclose Leu and Ile sequence variants at this position
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<221> Variable
<222> 394
<223> Applicants herein disclose Pro and Arg sequence variants at this position
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<222> 404
<223> Applicants herein disclose Pro and Leu sequence variants at this position
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<222> 413
<223> Applicants herein disclose Asp and Asn sequence variants at this position

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Met Glu Leu Ala Ala Leu Cys Arg Trp Gly Leu Leu Leu Ala Leu Leu
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Pro Pro Gly Ala Ala Ser Thr Gln Val Cys Thr Gly Thr Asp Cys Lys
20 25 30
Leu Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
35 40 45
Leu Tyr Gln Gly Cys Gln Val Val Gln Gly Asn Leu Glu Leu Thr Tyr
50 55 60
Leu Pro Thr Asn Ala Ser Leu Ser Phe Leu Gln Asp Ile Gln Glu Val
65 70 75 80
Gln Gly Tyr Val Leu Cys Ala His Asn Gln Val Arg Gln Val Pro Leu
85 90 95
Gln Arg Leu Arg Ile Val Arg Gly Thr Gln Leu Phe Glu Asp Asn Tyr
100 105 110
Ala Leu Ala Val Leu Asp Asn Gly Asp Pro Leu Arg Arg Thr Thr Pro
115 120 125
Val Thr Gly Ala Ser Pro Gly Gly Leu Arg Glu Leu Gln Leu Arg Ser
130 135 140
Leu Thr Glu Cys Leu Lys Gly Gly Val Leu Ile Gln Arg Asn Pro Gln
145 150 155 160
Leu Cys Tyr Gln Asp Thr Ile Leu Trp Lys Asp Ile Phe His Lys Asn

165	170	175
Asn Gln Leu Ala	Leu Thr Leu Ile Asp	Thr Asn Arg Ser Arg Ala Cys
180	185	190
His Pro Cys Ser Pro Cys Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser		
195	200	205
Ser Glu Asp Cys Gln Ser Leu Thr Arg Thr Val Cys Ala Gly Gly Cys		
210	215	220
Ala Arg Cys Lys Gly Pro Leu Pro Thr Asp Cys Cys His Glu Gln Cys		
225	230	235
Ala Ala Gly Cys Thr Gly Pro Lys His Ser Asp Cys Leu Ala Cys Leu		
245	250	255
His Phe Asn His Ser Gly Ile Cys Glu Leu His Cys Pro Ala Leu Val		
260	265	270
Thr Tyr Asn Thr Asp Thr Phe Glu Ser Cys Pro Asn Pro Glu Gly Arg		
275	280	285
Tyr Thr Phe Gly Ala Ser Cys Val Thr Ala Cys Pro Tyr Asn Lys Leu		
290	295	300
Ser Thr Asp Val Gly Ser Cys Thr Leu Val Cys Pro Leu His Asn Gln		
305	310	315
Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Cys Glu Lys Cys Ser Lys		
325	330	335
Pro Cys Ala Arg Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val		
340	345	350
Pro Val Pro Xaa Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser		
355	360	365
Phe Leu Arg Pro Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro		
370	375	380
Leu Ala Pro Leu Asp Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val		
385	390	395
Gly Arg Gly Xaa Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser Arg		
405	410	415
Tyr Glu Gly		

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<211> 19

<212> DNA

<213> Artificial Sequence

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<223> HER-2-specific oligonucleotide primer

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tgagcaccat ggagctggc 19

<210> 4

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> HER-2-specific oligonucleotide primer

<400> 4

tccggcagaa atgccaggct cc 22

<210> 5

<211> 22
<212> DNA
<213> Artificial Sequence
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<223> HER-2 cDNA-specific oligonucleotide primer

<400> 5
aacacagcgg tgtgagaagt gc 22

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> HER-2 ECDIIIa-region-specific oligonucleotide primer

<400> 6
ataccgggac aggtcaacag c 21

<210> 7
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<212> DNA
<213> Artificial Sequence
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<223> HER-2 ECDIIIa-region-specific oligonucleotide primer

<400> 7
tctgggtacc cactcactgc 20

<210> 8
<211> 22
<212> DNA
<213> Artificial Sequence
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<223> HER-2 exon-specific oligonucleotide primer

<400> 8
ttcacacatgg cacgtccaga cc 22

<210> 9
<211> 27
<212> DNA
<213> Artificial Sequence
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<223> HER-2 cDNA-specific oligonucleotide primer

<400> 9
gcacggatcc atagcagact gaggagg 27

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<211> 240
<212> DNA
<213> Homo Sapiens
<220>

<221> Variable

<222> 62

<223> Applicants disclose C, T, A and G variants at this position

<400> 10

ggc wcc cac tca cyg cyc ccg agg cca gct gca gtt cct gtc cct 45
Gly Xaa His Ser Xaa Xaa Pro Arg Pro Ala Ala Val Pro Val Pro
5 10 15

cwg cgc atr cag cct gnc cca gcc cac cct gtc cta tcc ttc ctc 90
Xaa Arg Xaa Gln Pro Xaa Pro Ala His Pro Val Leu Ser Phe Leu
20 25 30

aga ccc tct tgg gac mta gtc tct gcc ttc tac tct cta ccc ctg 135
Arg Pro Ser Trp Asp Xaa Val Ser Ala Phe Tyr Ser Leu Pro Leu
35 40 45

gcc ccc ctc agc cct aca agt gtc cst ata tcc cct gtc agt gtg 180
Ala Pro Leu Ser Pro Thr Ser Val Xaa Ile Ser Pro Val Ser Val
50 55 60

ggg agg ggc cyg gac cct gat gct cat gtg gct gtt sac ctg tcc 225
Gly Arg Gly Xaa Asp Pro Asp Ala His Val Ala Val Xaa Leu Ser
65 70 75

cgg tat gaa ggc tga 240
Arg Tyr Glu Gly

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